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\$/020/60/135/006/015/037 B019/B056

AUTHORS:

Kikoin, I. K., Academician, and Lazarev, S. D.

TITLE:

The Isotropic and Anisotropic Components of the Even

Photomagnetic Effect

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 6.

pp. 1371 - 1373

TEXT: When light is perpendicularly incident upon a semiconductor located in a magnetic field; an electric field is known to be formed. In the case of the even photomagnetic effect, the emf is usually measured in parallel with the direction of the magnetic field (contrary to the odd effect, the sign of the emf does not change in the case of the photomagnetic effect when the direction of the magnetic field is reversed). It has been found already earlier that the even photomagnetic effect in single crystals of Ge is anisotropic. The formula

 $E = L_1 e_{ik1} n_k H_1 + L_2 H_i n_k H_k + L_3 n_i H_i^2$  (2) was suggested for a phenomenological description of the photomagnetic emf. Here,  $L_1$ ,  $L_2$ , and  $L_3$  are Card 1/3

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The Isotropic and Anisotropic Components of the S/020/60/135/006/015/037 Even Photomagnetic Effect B019/8056

constants characterizing the semiconductor; eight is an antisymmetrical tensor; n are the components of the internal surface normal of the semiconductor; and  $H_i$ ,  $H_k$ , and  $H_l$  are the components of the magnetic field. The last term in (2) describes the anisotropy of the photomagnetic effect, indicating that the even photomagnetic effect may be observed not only in the direction of the magnetic field, but in any direction, especially perpendicularly to the magnetic field; this is the case even if  $\theta = \pi/2$ , where  $\theta$  is the angle between the surface normal and the magnetic field. The authors verified these results of the phenomenological theory, using a lisk-shaped single crystal of Go cut out perpendicularly to the [11] axis. From the results obtained the authors conclude that formula (2) may be used, not only for weak, but also for strong magnetic fields; however, the coefficients L1 and L2 must be considered to depend on the magnetic field. It further turned out that the isotropic and anisotropic components of the photomagnetic emf depend on the magnetic field, and may have different signs. The authors thank

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KIKOIN, I.K.; LAZAREV, S.D.

Anisotropy of the odd photomagnetic effect. Zhur.eksp.i teor.fiz.
41 no.4:1332-1333 0 '61. (MIRA 14:10)
(Photomagnetic effect)

26722 \$/056/61/041/005/037/038 \$109/\$102

24,2600

AUTHORS:

Kikoin, I. K., Nikolayev, I. N.

TITLE:

The photomagnetic effect in a p-n junction

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 41,

no. 5(11), 1961, 1692-1694

TEXT: Studies of the photomagnetic effect in semiconductors suggested a photomagnetic effect in the blocking layer between semiconductor and metal contact when the contacts are illuminated. In order to elucidate this, the following experiment has been made: A piece of n-type germanium (10 by 4 by 4 mm) had a diffusional p-n junction (due to diffusion of indium) on the one front face (4 by 4), and an ohmic contact (tin) on the other. The photomagnetic e.m.f. was measured between these contacts while the sample was illuminated and exposed to a magnetic field. This e.m.f. consists of the voltage along the homogeneous part of the sample and of the potential difference at the p-n junction. These two portions can be distinguished because the voltage along the homogeneous part depends on the area of the illuminated surface, which, e.g., may more or less be

Card 1/3

**APPROVED FOR RELEASE: 06/13/2000** 

CIA-RDP86-00513R000722520009-4"

9,4178

44247

s/056/62/043/006/063/067 B141/B102

AUTHORS:

47 7560

Gridin, V. A., Kikoin, I. K.

TITLE:

The nonstationary photomagnetic effect in germanium single

crystals

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43,

no. 6(12), 1962, 2315-2317

TEXT: The time sequence of the photomagnetic effect for pulsating illumination was investigated and the emf was measured as usual. Specimens of single crystal n- and p-type germanium in the shape of disks (30 mm diameter) were placed in a field of up to 30 koe, and light pulses were produced by a Kerr cell; the pulse length could be varied between 5 and 2000 μsec. The maximum light flux passing through the Kerr cell was about 10 17 quanta/sec. The depth of modulation of the visible particle of light was 98%. The emf of the photomagnetic effect to be measured was recorded simultaneously with the voltage pulse on the Kerr cell by an 0K-17M(OK-17M) synchronized double-beam oscilloscope. The oscillograph

Card 1/2

The nonstationary photomagnetic...

s/056/62/043/006/063/06? B141/B102

curves show the dependence of the uneven emf on the time at an illumination pulse of 1 msec. If the illumination is switched off at the moment when the emf passes through a maximum, it drops to zero without change of sign. The type of illumination also governs the shape of the curve. It is shown that the dependence of the photomagnetic effect on time depends strongly on the surface recombination rate, which can be explained by the fact that the emf is proportional to the difference in concentration of the minority carriers on the illuminated and nonilluminated part of the sample surface, whilst inversely proportional to the conductivity. The change in sign of the emf on samples having identical surfaces when the illumination is switched off is caused by the dependence of the surface recombination rate on the intensity of illumination. There are 2 figures.

September 29, 1962

Card 2/2

KIKOIN, Isaak Konstantinovich; KIKOIN, Abram Konstantinovich; MARGULIS, U.Ya., red.; AKSEL'ROD, I.Sh., tekhn. red.

[Molecular physics] Molekuliarnaia fizika. Moskva, Fizmatgiz, 1963. 500 p. (MIRA 17:2)

KIKOIN, I. K.

Igor' Vasil'evich Kurchatov. Atom energ. 14 no.1:5-9 Ja '63. (MIRA 16:1)

(Kurchatov, Igor' Vasil'evich, 1902-)

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是21	BSD-3/AFWL/IJP(C)/SSD Pa-Li/Pab-Li/Po-Li/P1-Li JD/AT
100	ACCESSION NR: AP3007057
	AUTHOR: Gokhberg, B. H. Kikoin, L. K. Knyazyatov, A. S.;
	Halitsev. V. V.; Otposhenenko, G. A.
1	TITLE: Use of tritium ion beam to determine deuteron plasma?
	density
	SOURCE: Zh. eksper. i teoret. fiziki, v. 45, no. 3, 1963, 428-436
	TOPIC TAGS: deuteron plasma density, toroidal discharge chamber,
	plasma density measurement, plasma density, plasma
	ABSTRACT: A method for investigation of a deuteron plasma by mean
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, in	The method is based on recording the secondary particles resulting
	from reaction D(t,n)He; caused by the collision or accelerated
	from reaction D(t,n)He; caused by the collision of accelerated tritium ions with the plasma particles. The energy of the injected tritium ions with the plasma particles, and the energy of the neutrons
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	from reaction D(t,n)He; caused by the collision of accelerated tritium ions with the plasma particles. The energy of the injected tritium ions with the plasma particles, and the energy of the neutrons
	from reaction D(t,n)He; caused by the collision of accelerated tritium ions with the plasma particles. The energy of the injected tritium ions with the plasma particles, and the energy of the neutrons

L 16795-63 ACCESSION NR: AP3007057

investigating device was a toroidal discharge chamber in a weak longitudinal magnetic field. The principal diameter of the toroid was 750 mm, the inner diameter of the discharge chamber, about 210 mm, the intensity of the magnetic field, 200—700 oe, and the maximum discharge current, about 100 kamp. The discharge time in the chamber was approximately 600 µsec, the pulse duration of the ion source, approximately 2000 µsec, and the time delay between the start of the discharge in the chamber and the start of the pulse of the source current, 500—1000 µsec. Measurements were carried out with the discharge chamber filled with deuterium and, as a conpath of a tritium beam was determined. Although the plasma density result of plasma compression but merely as result of the liberation of gas from the chamber walls during discharge. Orig. art. has:

ASSOCIATION: none SUBMITTED: 07 Mar 63 SUB CODE: PH Card 2/2

NO REF SOV: 080ct63

ENCL: 00 OTHER: 000

KIKOIN, I.K.; KOZYREV, Yu. P.

Effect of a magnetic field on recombination radiation from Ge and its quenching by infrared light. Zhur. eksp. i teor. fiz. 45 no.5:1393-1395 N '63. (MIRA 17:1)

### ACCESSION NR: AT4025309

# B/0000/63/000/000/0193/0198

AUTHORS: Kikoin, I. K.; Gokhberg, B. M.; Mal'tsev, V. V.; Otrosh-chenko, G. A.; Knyazyatov, A. S.

TITLE: Probing a deuterium plasma with a tritium beam

SOURCE: Diagnostika plazmy\* (Plasma diagnostics); sb. statey. Moscow, Gosatomizdat, 1963, 193-198

TOPIC TAGS: deuterium, tritium, plasma density, plasma electromagnetic property, neutron yield, discharge plasma

ABSTRACT: The method is based on the registration of the number of reactions between the incident tritium nuclei and the deuterium nuclei of the plasma, making it possible to investigate the variation of the deuterium density independently of the degree of ionization of the plasma and of the impurity contents. The investigation was made in the "Igla" toroidal chamber (large diameter 750 mm,

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ACCESSION NR: AT4025309

small diameter 200 mm, maximum capacitor bank energy 35 kJ, maximum discharge current 100 kA). The ion current and the position of the beam were monitored with thermocouples distributed over the channel. The tritium beam source is described elsewhere (I. I. Afanas'yev et al. "Atomnaya energiya" v. 13, No. 8, 135, 1962). The investigation of the neutron yield from the ion collector located on the inside of the discharge chamber has made it possible to draw certain conclusions concerning the absorption of the working gas (deuterium) by the walls of the discharge chamber. However, in the case of high-frequency ionization of the gas (preliminary ionization) the walls are capable of absorbing a very large amount of gas. Investigations of the variation of the deuterium plasma density during the discharge time show that the plasma density increases by several times during the discharge, as a result of interaction between the plasma and the walls. When deuterium is used in the discharge chamber, the yield of neutrons decreases immediately after the discharge, compared with the yield in the absence of discharge. In the case of hydrogen, the op-

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ACCESSION NR: AP4012524

s/0056/64/046/001/0067/0070

AUTHORS: Kikoin, I. K.; Igosheva, T. N.

TITLE: Hall coefficient and electrical resistance of ferromagnets

SOURCE: Zhurnal eksper. i teoret. fiz., v. 46, no. 1, 1964, 67-70

TOPIC TAGS: ferromagnet, Hall coefficient, electrical resistance, magnetic component of resistance, ferromagnetic Hall coefficient, odd galvanomagnetic effect, even galvanomagnetic effect, Curie point, magnetoresistance, Hall effect

ABSTRACT: Since the formula  $R_F = A\rho^2$  which Karplus and Luttinger (Phys. Rev. v. 95, 1154, 1954) proposed for the connection between the ferromagnetic Hall coefficient and the electric resistance  $\rho$  of a substance was never confirmed experimentally, the authors show that it is physically more justified to relate  $R_F$  with the "magnetic"

card 1/87

ACCESSION NR: AP4012524

part  $\rho_{M}$  of the resistance, brought about by spontaneous magnetization, and show by analysis of the experimental data that the formula  $R_{F} - R_{F0} = a \rho_{M'}$  where  $R_{F0}$  is the value of  $R_{F}$  at 0°K, holds true for temperatures both above and below the Curie point (with possible exception of very low temperatures). The variation of the resistance of several alloys in a magnetic field (in the paramagnetic region) is also shown to be proportional to the magnetic resistance. It is therefore concluded that the magnetic resistance  $\rho_{M}$  is the quantity with which both the odd and even valvanomagnetic effects should be compared. Orig. art. has: 3 figures and 7 formulas.

ASSOCIATION: None

SUBMITTED: 10Ju163

DATE ACQ: 26Feb64

ENCL: 01

SUB CODE: PH

NO REF SOV: 003

OTHER: 006

Card 2/32

KAROL', I. L.; MALAKHOV, S. G.; KIKOIN, I. K.

"Use of isotopes for quantitative investigation of atmosphere movement." report submitted for 3rd Intl Conf, Peaceful Uses of Atomic Energy, Geneva, 31 Aug-9 Sep  $6^{\rm h}$ .

ACCESSION NR: AP4037618

\$/0056/64/046/005/1923/1925

AUTHOR: Kikoin, I. K.; Igosheva, T. N.

TITIF: Magnetic variation of the resistance of ferromagnets

SOURCE: Zh. eksper. i teor. fiz., v. 46, no. 5, 1964, 1923-1925

TOPIC TACS: ferromagnet, ferromagnet resistance, ferromagnetic Hall coefficient, anomalous Hall coefficient, spontaneous magnetization, galvanomagnetic effect, resistance in magnetic field, para process, Curic point

ABSTRACT: In analogy with the simple connection they previously obtained (ZhETF v. 46, 67, 1964) between the ferromagnetic Hall effect and the magnetic resistance, the authors establish a relation for the change in the resistance of a ferromagnet in an external magnetic field. The consideration is limited to fields and temperatures at which the pard-process takes place. The relation established

 $-\Delta \rho / \rho_M = \Lambda (J^2 - J_*^2) / (J_{*0}^2 - J_*^2),$ 

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#### **APPROVED FOR RELEASE: 06/13/2000** CIA-RDP86-00513R000722520009-4"

ACCESSION NR: AP4037618

(J- magnetization, J and J --spontaneous magnetization, at given and zero temperatures) and comparison with the experimental data shows it to be the same for all the substances tested. The fact that the coefficient A in the equation is equal to 0.5 + 0.1 rather than unity is difficult to explain. An experimental determination of A itself entails considerable difficulty in view of its sensitivity to small errors in J and J far from the Curie point. Orig. art. has:

ASSOCIATION: None

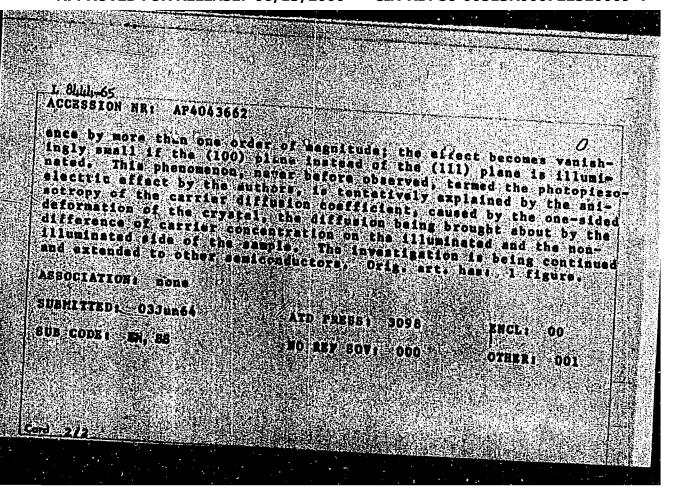
SUBMITTED: 09Mar64

SUB CODE: EC, EM

ENCL: 02

NR REF SOV: 004

OTHER: 002



L 14501-65 EWA(b)/EWE(b)/EWE(1)/9 APMD(b)/EBD(ge)/EBD(b)/LUP(c) AT Peb AEDG(a)/SSD/AFVL/AS(mp)-2/ ACCESSION NRI AP4047935 8/0056/64/047/004/1600/1601 AUTHORS: Kikoin, I. K.: Kozy rev, Yu. P. TITLE) Spectral distribution of the effect of quenching of recombination radiation in germanium by infrared light SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no: 4, 1964, 1600-1601 TOPIC TACS: recombination emission, luminescence (wenching, germanium, ir phenomenon, carrier injection, photoconductivity ABSTRACT: Preliminary results are reported of the study of the spectral distribution of the quenching of recombination radiation of germanium, Observed by the authors in earlier work (ZhETF v. 45, 1393, 1963). Germanium discs of about 10 mm diameter and 4 mm to 50 µ thick, were placed in a special holder and minority carriers injected by illumination with white light from an incandescent lamp, Cord 1/3

L 14501-65 ACCESSION NR: AP4047935

filtered with water so that only wavelengths <1 μ reach the sample. The light was modulated at 117 cps by a rotating disc with apertures. The same surface could be illuminated with unmodulated monochromatic infrared light. The recombination radiation was measured with a lead sulfide photo-resistor, a tuned amplifier, a synchronous detector and an automatic recorder. p-type and n-type samples of 50 chm-cm resistivity and n-type samples of 40, 20, and 11 chm-cm resistivity the quenching effect had a maximum near 2.7 μ and 3.6 μ. For p-type samples of 0.7 and 3 chm-cm resistivity, only one quenching maximum was observed at 2.7 μ, with an amplitude smaller than that for high-resistivity samples. For germanium samples of both types with resistivity on the order of 0.01 chm-cm no quenching was observed at all. The possible analogy between this effect and photoconductivity quenching is suggested. Orig. art. has: 2 figures.

ASSOCIATION: None

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ACCESSION NR: AP5021730

UR/0386/65/002/002/0075/0077

AUTHOR: Kikoin, I. K.; Lazarev, S. D. 44,55

TITLE: Anisotropy of the odd-parity photomagnetic effect in germanium in strong effective magnetic fields

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 2, 1965, 75-77

TOPIC TAGS: photomagnetic effect, germanium semiconductor, semiconductor research, semiconductor theory

ABSTRACT: Previous studies have shown anisotropy in both the even- and odd-parity photomagnetic effects in germanium. A microscopic theory for anisotropy of the photomagnetic effects was recently developed by Kagan and Sobakin (Yu. Kagan, V. Sobakin, J. Phys. Chem. Solids, 26, 1965 [in press]). According to this theory, when  $\omega \gg \tau$  ( $\omega$  is the gelotron frequency of the carriers and  $\tau$  is relaxation time), a unique anomaly should be observed in the anisotropic component of the odd-parity photomagnetic emf V as a function of the angle 0 between the direction of the magnetic field and the normal to the illuminated surface of the semiconductor. The

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ACCESSION NR: AP502173C

authors measured the odd-parity photomagnetic emf in n- and p-germanium at  $77^{\circ}$ K. The angular effect on odd-parity photomagnetic emf in various field strengths for both types of germanium is shown in fig. 1 of the Enclosure. The odd-parity anisotropic photomagnetic emf is given as a function of magnetic field strength H at various values of the angle  $\theta$  for both types of germanium in fig. 2 of the Enclosure. The experimental results show extremely good agreement with the Kagan-Sobakin theory. "The authors are grateful to Yu. Kagan and V. Sobakin for fruitful consultation." Orig. art. has: 2 figures.

ASSOCIATION: none

SUBNITTED: 25May65

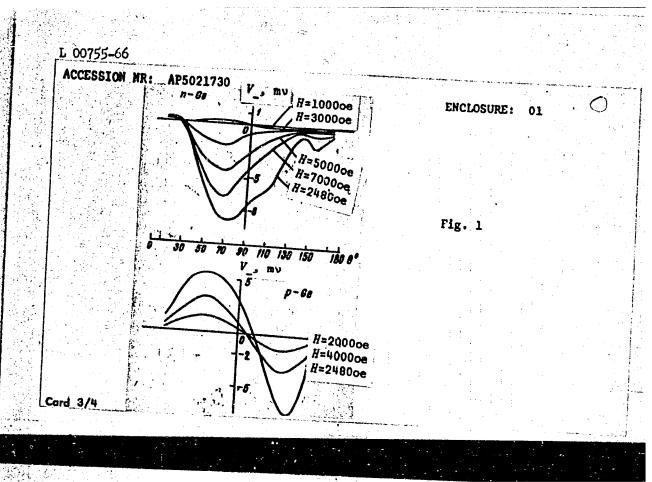
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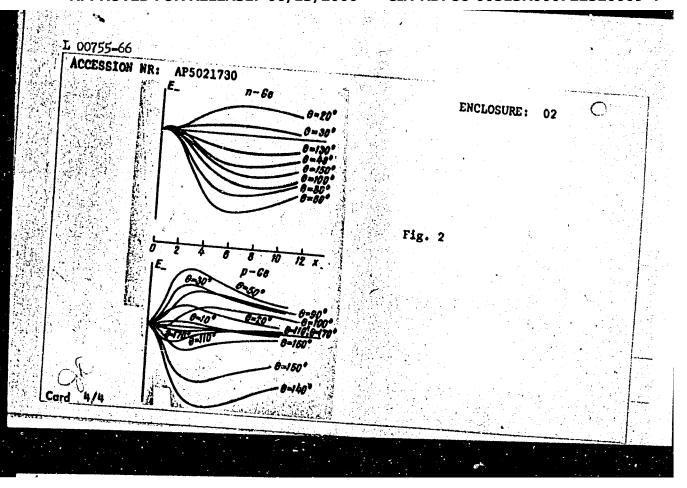
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EWT(1)/EPA(s)-2/EWT(m)/EWP(w)/EPF(n)-2/T/EWP(t)/EWF(b) 1 00345-66 JD/WW/JG UR/0056/65/049/001/0124/0126 AUTHOR: Kikoin K. Senchenkov. Naurzakov, B. TITLE: Electric conductivity and density of metallic vapor Zhurnal ekeperimental'noy i teoreticheskoy fiziki, v. 49, no. 1, 1965, 124-126 TOPIC TAGS: mercury, electric conductivity, pressure effect, temperature dependence, high temperature research ABSTRACT: The article describes an investigation of the electric conductivity of mercury in the transcritical range of temperatures and pressures. The experiments were carried out in a chamber in which pressures up to 4000 atm could be established by means of gaseous argon compressed with a thermal compressor. The mercury was contained in a capillary whose mid-section could be heated electrically to 2000C. The transcritical conditions were established only in the middle part of the capillary. The mercury was activated in a reactor before the experiments, and its density was determined by measuring the  $\gamma$  radiation from the Hg203. The measured quantities were automatically recorded with multichannel automatic plotter. The

ACCESSION NR: AP5019224 family of curves plotted at different pressures made it possible to determine the "electrical equation of state"  $r = f(\rho, T)$  and the thermodynamic equation for the density  $\rho = \phi(P, T)$  (r = resistivity,  $\rho = density, T = temperature, P = pressure).$ The critical temperature of mercury was found to be 1450 ± 50C. The measurement

accuracy was insufficient to determine the temperature coefficient of resistivity, but it was found to be negative at densities below 7-8 g/cm3 and close to zero at higher density. A more detailed description of the results and of the experiments

will be published elsewhere. Orig. art. has: 2 figures:~

ASSOCIATION: None

L 00345-66

SUBMITTED: 19Feb65

ENCL: 00

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NO REF SOV: 001

Card 2/2

L 8155-66 EWT(1)/EWT(b)/EWP(b)/EWP(t) IJP(c) JD

ACCESSION NRI APSO19895

UR/0181/65/007/008/2564/2565

AUTHOR: Kikoin, I. K.; Lazarev, S. D.

TITLE: On the anisotropy of the even photomagnetic effect in p-germanium in strong magnetic fields

SOURCE: Fizika \*verdogo tela, v. 7, no. 8, 1965, 2564-2565

TOPIC TAGS: germanium, photomagnetic effect

ABSTRACT: This is a continuation of earlier work by the authors (ZhETF v. 39, 11, 1960) on the anisotropic even photomagnetic effect in n-germanium. The present investigation was made on p-germanium and its purpose was to check on a detailed theory of anisotropic photomagnetic effect, developed by Yu. M. Kagan and V. N. Sobakin a companion paper (FTT v. 7, 2565, 1965, Acc. nr. 5019896). The investigated the sample was cut in such a way that the normal to the illuminated surface of perfectly analogous to those made in the earlier investigation by the authors. The experimental data agreed fully with the theory of Kagan and Sobakin. "The authors Orig. art./has: 2 figures. 4 4 5 5

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28885-66 EWT(), ACC NR: AP6018700 UR/0386/66/003/011/0434/0436 AUTHOR: Kikoin, I. K.; Lazarev, S. D. ORG: none TITIE: Oscillations of the photomagnetic effect with the magnetic field SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 11, 1966, 434-436 TOPIC TAGE: indium compound, antimonide, photomagnetic effect ABSTRACT: To check whether in indium antimonide the photomagnetic effect oscillates with the magnetic field, the authors measured both the even and odd photomagnetic emf's in InSb in magnetic fields up to 23,000 oe at liquid-helium temperature (4.2K). The sample, with carrier density 1015 at/cm3, was equipped with two sets of mutually perpendicular electrodes to measure the cdd and even photomagnetic emf's, respectively. The even effect was measured with the sample inclined 30° to the magnetic field. The even emf was measured in the direction of the projection of the field on the plane of the sample. Plots of the emf's against the field show that the oscillations begin at the relatively low value 2000 oe for the odd photomagnetic effect and 4000 oe for the even one. The data for the odd effect agree qualitatively with the theory developed by V. N. Sobakin (Dokl. AN SSSR v. 167, 71, 1966). There is as yet no quantitative theory for comparison with the results on the even effect. Ordg. art. bas: 1 figure. SUB CODE: 20/ SUBM DATE: 30Mar66/ ORIG REF: 002/ ATD PRESS: 5006 Card 1/1 CC

24(3) 507/56-36-2-54/63

AUTHORS: Karchevskiy, A. I., Artyushkov, Ye. V., Kikoin, L. L.

TITLE: The Isotopic Shift of the Curie Pointinthe Hydride and Deuteride

of Uranium (Izotopicheskiy sdvig tochki Kyuri v gidride i

deyteride urana)

FERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959,

Vol 36, Nr 2, pp 636-637 (USSR)

ABSTRACT: The detection of the ferromagnetism of uranium hydride and

uranium deuteride (Refs 1, 2, 3) made it possible to investigate the isotopic shift of the Curie (Kyuri) temperature.

One of these possibilities is given by the fact that the distance between the uranium ions is different in the

2 above-mentioned compounds. There are several methods which permit a sufficiently precise determination of the Curie temperature in ferromagnetics. The authors of the present paper investigated the temperature dependence of the remanent properties tion of samples of avenium hydride and avenium down

magnetization of samples of uranium hydride and uranium deuteride in order to obtain preliminary results concerning the shift of the Curie point. The remanent magnetization of

Card 1/3 the samples was measured by an astatic magnetometer. The

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The Isotopic Shift of the Curic Point in the Hydride and Deuteride of Uranium

authors prepared more than 20 samples of uranium hydride and uranium deuteride. For any investigated sample, a difference was observed between the Curie temperatures of uranium hydride and uranium deuteride. This shift practically does not depend on the degree of purity of the original uranium and it is, therefore, not caused by chemical impurities. Typical curves for the temperature dependence for the remanent magnetization are shown in a figure. According to this figure, the difference of the Curie temperatures of uranium hydride and deuteride amounts to 4°, and the mean error amounts to 0.5°. The shift  $\Delta$  8 of the Curie temperature therefore is equal to  $\Theta_{\rm UH}$  =  $\Theta_{\rm UH}$  =  $\Delta\Theta$  = +(4.0 ± 0.5)°K. The absolute

value of the Curie temperature cannot be found according to the method described in this paper. The Curie point deduced by extrapolation from the temperature dependence of the remanent magnetization of a given sample practically does not depend on external influences. The authors suggest investigating the absolute value of the Curie temperature of uranium hydride and uranium deuteride, and they thank Academician I. K. Kikoin for suggesting the problem discussed in this paper and for his

Card 2/3

SOV/56-36-2-54/63
The Isotopic Shift of the Carie Pointinthe Hydride and Deuteride of Mranium

help. There are 1 figure and 4 references, 2 of which are

Soviet.

SUBMITTED: November 18, 1958

card 3/3

KIKOTN, Ye. K.

Geography, Economic - Study and Teaching

Utilization of supplemental literature in lessons of economic geography in seconda y schools. Geog. v shkole no. 1, 1952.

Monthly List of Russian Accessions, Library of Congress April 1952. UNCLASSIFIED.

KIKOIN, Ye.K.

Work of a geography club. Geog.v shkole no.5:53-57 S '53. (MLRA 6:8) (Geography--Study and teaching)

ECGDANCY, Daniil Vasil'yevich; STEFANOV, V.N., dobtor geogr. nauk, retsenzent; DENYABINA, E.A., retsenzent; KIKOIN, Ye.K., metodist, retsenzent; VACIL'YEVA, O.B., red.

[Stories about the world ocean; a reader. Textbook for teachers] Rasskazy · mirovom okeane; khrestematiia. 10-soble dlia uchitelia. Moskva, Uchpedgiz, 1963. 159 p. (MERA 17:7)

1. Cavedurushchiy kabinetom geografii Voronembekego instituta usovershenstvovaniye uchiteley (for Deryabina).
2. Geograficheskiy fakul tet Cdesskogo Gosudarstvennogo universiteta (for Kikoin).

KIKOLE, V.

Development of Lodz. p. 9.

Periodical: ŒOCRAFSKI OBZORNIK.

GEOGRAPHY & GEOLOGY

Vol. 5, no. 2, 1958.

SO: Monthly List of East European Accessions (EEAI) LC

Vol. 8, No. 4 April 1959, Uncl.

KIKOLOV, A. I., Cand. Medic. Sci. (diss) "Physiological Basis of System of Work at Control Panel (for Work of Mental and Emotional Intensity)," Moscow, 1961, 19 pp. (Acad. Med. Sci.) 250 copies (KL Supp 13-61, 285).

KIKOLOV, A.I. (Moskva)

Physiological changes observed in attendants on duty and control desk operators of the Moscow subway. Gig. truda i prof. xab. 4 no.2:20-26 F 160. (MIRA 15:3)

1. Institut gigiyeny truda i professional'nykh zabolevaniy ANN SSSR.

(MOSCOW -- SUBWAYS -- HYGIENIC ASPECTS)

#### KIKOLSKI, B.

Development of geography in China. p. 137

PRZEGLAD GEOGRAFICZNY. POLISH GEOGRAFHICAL REVIEW. (Polska Akademia Nauk. Instytut Geografii) Warszawa, Poland. Vol. 31, no. 1, 1959

Monthly List of East European Accessions (EEAI) IC, Vol. 9, no. 2, Feb. 1960 Uncl

KIKOLSKI, Bohdan (Warszawa)

Everlasting frozen soils on the Tsinghai-Tibetan plateau. Czasop geograf 34 no.1:67468 '63.

KIKOR, W.; Kotarska, A.

 $L^3$  -naphthalene - S-ketocarbexylic acids. L. 6-(naphthyl-1)-4-keto-2,2-dimethylhexanecarbexylic acid. p. 35

ACTA CHIVICA. (Lodzkie Towarzystwo Naukowe. Wydzial III: Nauk Matematyczno-Przyrodniczych) Lodz, Poland. Vol. 3, 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 2, no. 7, July 1959 Uncl.

BLOKHIN, A.S., redaktor; KIKOSOV, L.V., redaktor; SOKOLOVA, R.Ya., tekhnicheskiy redaktor

[12-channel system of high-frequency telephone communication in type K-12 cable communication lines; a collection of instructions] 12-kanal'naia sistema vysokochastotnogo telefonirovaniia po kabel'-nym liniiam sviazi (tipa K-12); informatsionnyi shornik. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1954. 162 p. [Microfilm] (MLRA 8:6)

1. Russia (1923- U.S.S.R.) Ministerstvo svyazi. Tekhnicheskoye upravleniye.

(Telephone lines)

KAZITSYNA, L.A.; KIKOT', B.S.; ASHKINADZE, L.D.; REUTOV, O.A.

Correlation of the frequencies and intensities of infrared absorption bands for diazonium salts X - C6H2N2Cl with the constants of the substituent. Dokl. AN SSSR 151 no.3:573-576 Jl '63.

- 1. Moskovskiy gosudarstvennyy universitet im. Lomonosova.
- 2. Chlen-korrespondent AN SSSR (for Reutov).

  (Diazonium compounds—Absorption spectra)

  (Substitution (Chemistry))

TERENT'YEV, A.P.; VOLODINA, M.A.; KIKOT', B.S.; MISHINA, V.G.; KOMISSAROV, I.V.

Synthesis and properties of pyrrolidine bases. Part 10: Synthesis of α-amino-ω-pyrrolidyl alkanes and α-bispyrrolidyl alkanes, derivatives of heptane, octane, nonane, decane. Zhur.ob.khim. 34 no.1:209-213 Ja 164. (MIRA 17:3)

KAZITSYNA, L. A.; REUTOV, O. A.; KIKOT', B. S.; RASSADIN, B. V.

Ultraviolet absorption spectra of hydroxy- and methoxyphenyl diazonium chlorides. Izv. AN SSSR. Ser. fiz. 27 no.1:53-55
Ja '63. (MIRA 16:1)

1. Kafedra organičneskov khimii Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova.

(Diazonium compounds-Spectra)

KAZITSYNA, L.A.; KUPLETSKAYA, N.B.; POLSTYANKO, L.L.; KIKOT', B.S.; KOLESNIK, Yu.A.; TERENT'YEV, A.P.

Ultraviolet absorption spectra of alkyl imines of acetylacetone and #-hydroxynaphthaldehyde. Zhur. ob. khim. 31 no.1:313-323 Ja '61. (MIRA 14:1)

1000

1. Moskovskiy gosudarstvennyy universitet.
(Naphthaldehyde) (Acetone)
(Imines-Spectra)

KAZITSYNA, L.A.; REUTOV, O.A.; KIKOT', B.S.

Infrared absorption spectra of double salts of o- and m-substituted aryldiazonium chlorides with metal chlorides. Zhur.ob.khim. 31 no.9:2950-2957 S '61. (MIRA 14:9) (Diazonium compounds--Spectra)

7.

44942

S/048/63/027/001/019/043 B106/B101

AUTHORS:

Kazitsyna, L. A., Reutov, O. A., Kikot', B. S., and

Rassadin, B. V.

TITLE:

Ultraviolet absorption spectra of hydroxy and methoxy-phenyl

diazonium chlorides

PERIODICAL:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27,

no. 1, 1963, 53-55

TEXT: The ultraviolet absorption spectra of o-hydroxy-phenyl and p-hydroxyphenyl diazonium chlorides in aqueous acid, neutral, and alkaline solutions were studied to explain the mechanism of converting the diazonium cation into quinone diazide. The spectra of solutions of o-methoxy and p-methoxyphenyl diazonium chlorides were compared. The spectra of hydroxy compounds in strongly acid solutions of 5 N - 0.5 N HCl are consistent with those of methoxy compounds. This proves the existene of diazo cations. In neutral, aqueous solutions, hydroxy-phenyl diazonium chlorides exist as quinone diazides. Conversion of the diazo cation into quinone diazide is a reversible process. The curves of absorption in weakly acid solutions

Card 1/2

Ultraviolet absorption spectra of ...

S/048/63/027/001/019/043 B106/B101

(0.1 N - 4.10<sup>-4</sup> N HCl) show the conversion to be determined by a dissociation equilibrium establishing rapidly:

HO - N = N  $O = N_2 + H^+$ 

The dissociation constant in ortho-isomers is much higher than in para isomers. All studied compounds were found to be unstable in dilute alkaline solutions. o-methoxy and p-methoxy-phenyl diazonium chlorides in concentrated lyes yield diazotates, whereas hydroxy derivatives are decomposed without the formation of diazotates. There are 2 figures and 1 table.

ASSOCIATION:

Kafedra organicheskoy khimii Moskovskogo gos. universiteta im. M.V. Lomonosova (Department of Organic Chemistry of the Moscow State University imeni M.V. Lomonosov)

Card 2/2

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000722520009-4"

BOKIY, N.G., POLYNOVA, T.N. PORAT-SHATS, M.A., KIKOT, B.S., KAZITSYNA, L.A.

Crystal structure of the double dissonium salt of ferric chloride with o-methoxyphenyl dissonium chloride. Zhur.strukt.khin. 4 no.3s453-454 My.Je 153. (MIRA los6)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.
(Diazonium compounds) (Crystallography)

KAZITSYNA, L.A.; REUTOV, O.A.; KIKOT', B.S.

Double diazonium salts of mercury chlorides and trivalent antimony. Zhur. ob. khim. 33 no.5:1561-1570 My '63.

(MIRA 16:6)

(Diazonium compounds) (Salts, Double)

KIKOT', B.S.; KOLESNIK, Yu.A.

Diazorium salts of arylsulfonic acids. Infrared spectra in the region 2100-2300 cm<sup>-1</sup>. Zhur.ob.khim. 33 no.3:997-1001 Mr 163. (MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova i Moskovskiy institut narodnogo khozyaystva imeni G.V. Plokhanova.

(Diazonium compounds—Absorption spectra)
(Sulfonic acids)

KIKOT', B. S.; KAZITSYNA, L. A.; REUTOV, O. A.

Constitution of o- and p-hydroxyphenyl diazonium cations containing SO<sub>3</sub>H- and COOH groups. Izv AN SSSR Ser Khim no. 4: 756-758 Ap 164. (MIRA 17:5)

1. Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova.

KAZITSYNA, L. A.; KIKOT', B. S.; RASSADIN, B. V.; REUTOV, O. A.

Ultraviolet spectra of methoxyphenyldiasonium chlorides. Zhur. ob. khim. 32 no.12:3977-3982 D '62.

(MIRA 16:1)

(Diazonium compounds-Spectra)

KAZITSYNA, L. A.; KIKOT', B. S.; RASSADIN, B. V.; REUTOV, O. A.

Ultraviolet absorption spectra of hydroxyphenyldiasonium chlorides. Zhur. ob. khim. 33 no.1:223-227 '63. (MIRA 16:1)

(Diazonium compounds-Spectra)

KIKOT' B. S.

Synthesis of e- and p- bensoquinone diasides. Zhur. ob. khim. 33 no.1:227-229 '63. (MIRA 16:1)

1. Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova.

(Cyclohexadienone)

KAZITSYNA, L.A.; KIKOT', B.S.; ASHKINADZE, L.D.; REUTOV, O.A.

Infrared spectra of hydroxyphenyl diazonium compounds in the region 2100 to 2300 cm<sup>-1</sup>. Zhur.ob.khim. 33 no.7:2238-2244 Jl '63.

(MIRA 16:8)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

(Diazonium compounds—Absorption spectra)

KAZITSYNA, L.A.; KIKOT', B.S.; REUTOV, O.A.

Infrared absorption spectra of diazomium salt solutions in the region 2200 - 2300 cm<sup>-1</sup>. Izv. AN SSSR. Ser. khim. no.6: 955-959 Je '64. (MIRA 17:11)

1. Moskovskiy gosudarstvennyy universitet.

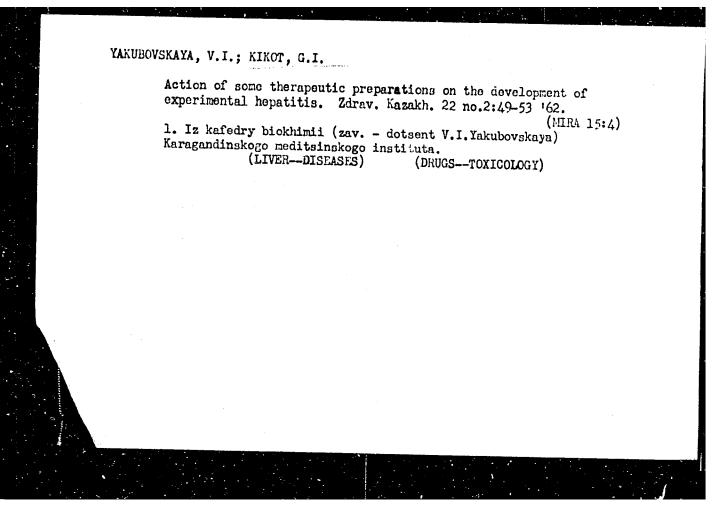
KAZITSYNA, L.A., Kikor' B.S.; Vinoskarova, L.Ye., RESTOV, C.A., akademiz

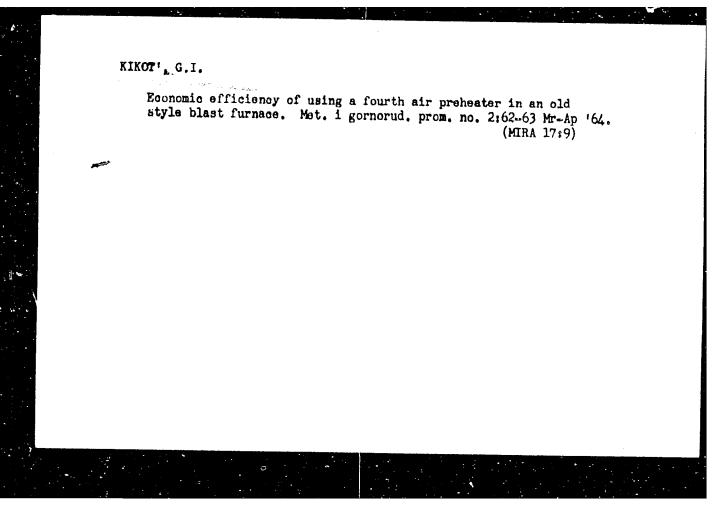
Froducts of interaction between quinone discides and metal
halides. Doki. AN SSSR 158 no.6:1369-1372 0 '64.

1. Moskovskiy gosudarstvennyy universitet.

(MIRA 17:12)

EWP(j)/EWT(m) L 33268-66 ACC NR. AR6016191 SOURCE CODE: UR/0058/65/000/011/D025/D025 AUTHOR: Kazitsyna, L. A.; Kikot, B. S.; Ashkinadze, L. D.; Reutov, O. A. 63 TITIE: Correlation of frequencies and intensities of ir absorption bands of diazonium salts X-CoH4N2Cl with the constants of the substitutes SOURCE: Ref. zh. Fizika, Abs. 110188 REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 130-137 TOPIC TAGS: ir absorption, absorption band, diazonium salt, chemical bonding, line intensity ABSTRACT: The authors measured the integral intensities of the absorption bands, corresponding to the valence vibrational bond N=N, for methanol solutions of diazonium chlorides X-C<sub>3</sub>H<sub>4</sub>N<sub>2</sub>Cl, where X = N-CH<sub>3</sub>O, N-CH<sub>3</sub>, N-Cl, H, M-Cl, N-NO<sub>2</sub>, and M-NO<sub>2</sub>. It is shown that the integral intensity changes in the range from  $0.62 \times 10^{-4}$  for M-NO<sub>2</sub> to 3.85 x 10<sup>-4</sup> cm<sup>-2</sup>mole<sup>-1</sup>liter for N-CH<sub>3</sub>O. It is also found that logarithms of the integral intensities and the frequencies of the valence vibrations of the N=N bond of diazocations, measured for dilute solutions of diazonium chlorides, depend linearly on the values of the Hammett constants of the substitutes of the benzene ring. For the substitutes N-CH<sub>3</sub>O and N-OH, the linearity of these dependences is retained only if the values of  $\sigma^+$  are used in place of the Hammett constants  $\sigma_*$ [Translation of abstract] SUB CODE: 20, 07





PLATE, A.F.; KIKOT', G.S.

Homogeneous destructive hydrogenation of p-(A, A -dimethylbenzyl)
phenol. Zhur.ob.khim. 32 no.6:1828-1831 Je '62. (MIRA 15:6

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Phenol) (Hydrogenation)

DEREVITSKAYA, V. A.; KIKOT', G. S.; KOCHETKOV, N. K.

Methylation of the blood group substance A. Izv AN SSSR Ser Khim no. 4:761-763 Ap '64. (MIRA 17:5)

1. Institut khimii prirodnykh soyedineniy AN SSSR.

KIKOTI, G.P., inzhener; ORENTLIKHER, L.P.; DANILOV, N.N., inzhener.

Making large-panel walls on the construction site. Mekh.trul.rab.
9 no.2:21-23 F'155.

(Walls)

(Walls)

Mikoti, G.P., inzhemer; SKVORTSOV, S.G., inzhemer; ORENTLIKHER, L.P., inzhemer;

DANILOV, N.H., inzhemer; FOMIH, F.M., inzhemer.

Making large panel wall slabs frem gypsum concrete in vertical ferms using vibration draimage and vacuum precesses. Rats. i ixebr.predl.v strei. ne.121:12-17 '55. (MIRA 9:7)

1.Trest "Streitel'" (fer Kiketi, Skvertsev, Orentlikher, Danilev)

2.Trest TSentrestankestrey (fer Femin, Debrzhanskiy).

(Walls) (Cencrete slabs)

NIKOLAYEV, K.P., gornyy inzh.; KUDRYAVTSEV. M.V., gornyy inzh.; KIKOVKA, Ye.I., gornyy inzh.

Simultaneous permanent and cross trenching. Gor. zhur. no.2: 21-24 F'62. (MIRA 17:2)

1. Novo-Krivorozhskiy gorno-obogatitel'nyy kombinat.

ALEKSEYEV, F.K.; ANDRIYUTS, G.L.; ARSENT'YEV, A.I.; ASTAF'YEV, Yu.P.;

BEVZ, N.D.; BEREZOVSKIY, A.I.; GENERALOV, G.S.;

DOROSHENKO, V.I.; YESHCHENKO, A.A.; ZAPARA, S.A.; KALINICHENKO, V.F.;

KARNAUSHENKO, I.K.; KIKOVKA, Ye.I.; KOBOZEV, V.N.; KUPIN, V.Ye.;

LOTOUS, V.K.; LYAKHOV, N.I.; MALYUTA, D.I.; METS, YU.S.; OVODENKO,

B.K.; OKSANICH, I.F.; PANOV, V.A.; POVZNER, Z.B.; PODORVANOV, A.Z.;

POLISHCHUK, A.K.; POLYAKOV, V.G.; POTAPOV, A.I.; SAVITSKIY, I.I.;

SERBIN, V.I.; SERGEYEV, N.N.; SOVETOV, G.A.; STATKEVICH, A.A.;

TERESHCHENKO, A.A.; TITOV, D.S.; FEDIN, A.F.; KHOMYAKOV, N.P.;

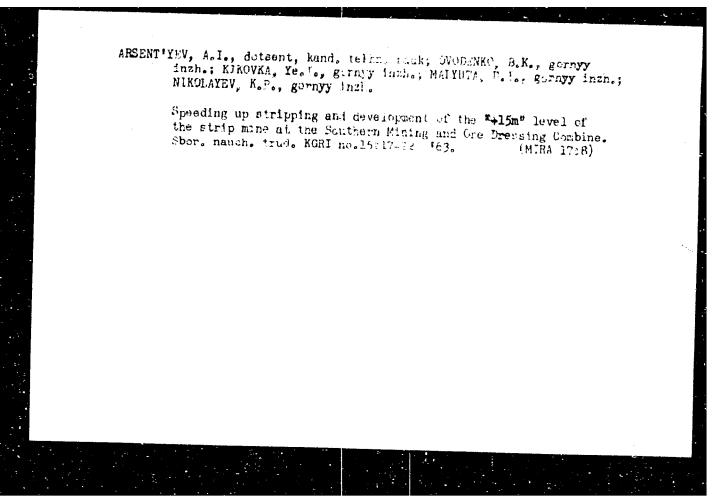
SHEYKO, V.G.; SHEKUN, O.G.; SESTAKOV, M.M.; SHTAN'KO, V.I.

Practice of construction and exploitation of open pits of Krivoy

Rog Basin mining and ore dressing combines. Gor. zhur. no.6:

8-56 Je '63. (MIRA 16:7)

U



VOLYNETS, M.A., gornyy inzh.; KIKOVKA, Ye.I., gornyy inzh.; TKACHENKO, A.P.

•

Blasting operations in the pit of the New Krivoy Rog Mining and Ore Dressing Combine. Vzryv. delo no.53/10:163-171 163.

(MIRA 16:8)

1. Novo-Krivorozhskiy gorneobogatitel'nyy kombinat imeni Leninskogo komsomolo (for Volynets, Kikovka). 2. Krivorozhskiy gornorudnyy institut (for Tkachenko). (Krivoy Rog Basin-Blasting)

CIA-RDP86-00513R000722520009-4" **APPROVED FOR RELEASE: 06/13/2000** 

DUBENYUK, V.M., gornyy inzh.; SFKSHENEO, V.I., gornyy inzh.; SHABEIY, V.I., gornyy inzh.; KIKOYKA, I.Ye., gornyy inzh.

Aeration of mines by a reactive ventilation equipment. Gor. chur. no.10:75-77 0 '65. (MERA 18:11)

1. Krivorezhskiy gornorudnyy inztitut (for Pubenyuk, Semeranka). S. Nove-Krivorezhskiy gornorbogatitel'nyy kemtinat (for Rikevka, Shabliy).

MALYUTA, D.I., inzh.; VC'YNETS, M.A., inzh.; KIKOVKA, Ye.I., inzh.; KNYAZEV, K.I., inzh.; YEFREMOV, E.I., kand. tekhn. natk; H'IN, V.I., inzh.

Experience in the blasting of hard ores by deep boreholes in the open-pit mine of the Krivoy Rog Mining and Ore Dressing Combine. Varyv. delo no.57/14:145-151 '65. (MIRA 18:11)

1. Novo-Krivorozhskiy gornoobogatitel'nyy kombinat (for Nalyuta, Volynets, Kikovka, Knyazev). 2. Filial Instituta mekhaniki AN UkrSSR. (for Yefremov, Il'in).

DRUKOVANYY, M.F., kend. tokhn. nauk; YEFHEMOV, E.I., kand. tekhn. nauk; KOMIR, V.M., inzh.; MALYUTA, D.I., inzh.; VOLYMUTA, M.A., inzh., KIKOVKA, Ye.I., inzh.

Ways of further improvements in the design of charges for blasting operations in mines. Vzryv. delo no.57/14/198.200 165.

1. Filial instituta mekhaniki AN UkrESE (for Brekovanyy, Yaframov, Komir). 2. Novo-Kriverezhskiy gerneebegeniel'nyy kombinat imeni Leninskogo komsomola (for Malyuta, Volyneta, hikovka).

KIKOVSKIY, I A

PHASE I BOOK EXPLOITATION

BOV/5583

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Podkletnov, Ye. N., Stalin Prize Winner, ed.

Emal' i proteessy emalirovaniya (Enamels and Enameling Processes) Moscow, Manhgiz, 1961. 113 p. 4,000 copies printed.

Sponsoring Agency: Gomudarstvennyy nauchno-tekhnicheskiy komitet Soveta Ministrov Ukr3SR. Institut tekhnicheskoy informatsii.

Ed.: N. P. Onishchenko; Tech. Ed.: M. S. Gornostaypol'skaya; Chief Ed.: Mashgiz (Southern Dept.): V.K. Sordyuk, Engineer.

PURPOSE: This book is intended for engineering and technical personnel concerned with the research, production, and uses of enamel.

COVERAGE: This collection of articles on enamels and enameling processes is based on material presented at the first Ukraine-wide conference on the production of enamel and enameled equipment, organized by the State Scientific Technical Committee of the Ukrainian SSR, the Kiyev Sovnarkhos, Chemical

Card 1/4

17

Enamels and Enameling Processes

EOV /5583

Society imeni Mendeleyev, Scientific Technical Society of the Machine Building Industry, and other sovmarkhozes, scientific research institutes, and planning organizations. [The name, place, and date of the conference are not given.] The following are discussed: old and new types of enamels, their composition, properties, uses, and methods of production; the production of enameled equipment (chemical apparatus, pipes, cisterns, etc.), and their use in the coal, chemical, food, and other industries; latest advances in the mechanization of enameling processes and techniques; the effect of underlying surfaces on the quality of enamel coatings; and methods of modifying the properties of enamel coatings, e.g., increasing their chemical stability. American and Chinese practices and production are also briefly discussed. No personalities are mentioned. There are 32 references: 22 Soviet, 7 English, and 3 German.

TABLE OF CONTENTS:

Tsmel', V. M. Development of the Enumel Industry in the Ukrainian SER

Smirnov, N. S. Prospects for Developing and Methods of Improving the Enamel Industry in the Urals, Siberia, and the [Soviet] Far East

Card 2/4

Enamels and Enameling Processes	80V/558 <b>3</b>	7	
Vargin, V. V. Some Problems Regarding the Composition, Pro- Technology of Enamels for Chemical Equipment	operties, and		
Podkletnev, Ye. N. Latest Technology of Enameling in an El Field With the Use of Automatic Machine Tools	lectromagnetic 22	. ;	<u>:</u> <del>:</del>
Vargin, V. V., and L. L. Gutorova. Alkali-Resistant Energy	ia 33		
Svetlov, V. A., N. S. Smirnov, and Y. A. Kikovskiy. Increse the Chemical Stability of Enamel Contings	eing 44	1	
Belyayev, G. I. Effect of Magnesium Oxide and Chromomagnes Properties of Enamels Containing Little or No Boron	ite on the		
Litvinova, Ye. I. Effect of Metals on the Quality of Enam		o .	
Matyash, A. Ya. Production and Use of Enameled Equipment	72	-	
Ostapchuk, Yu. G. Production of Enameled Chemical Equipmen at the "Krasnyy Oktyabr'" Plant Card 3/4	77	•	

KIKTA, T., mgr.

The pharmaceutical industry in the Hungarian People's Republic. Farmacja polska 18 no.12:298 25 Je '62.

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Magister T. 1 187A (Affiliation ret given)

Throm the Tharmacy School of the College of Medicine in Krabow.

Threaw, Tarmacja Folska, Mol 18, No 21, 10 Nov 1902; pp 519-530.

Ibstract: A review of activities during 1960: 71 publications prepared on an many completed studies; these are listed by number and Head of each Department, as well as by journal in which published. Some data library the internal organization, facilities and steff are given.

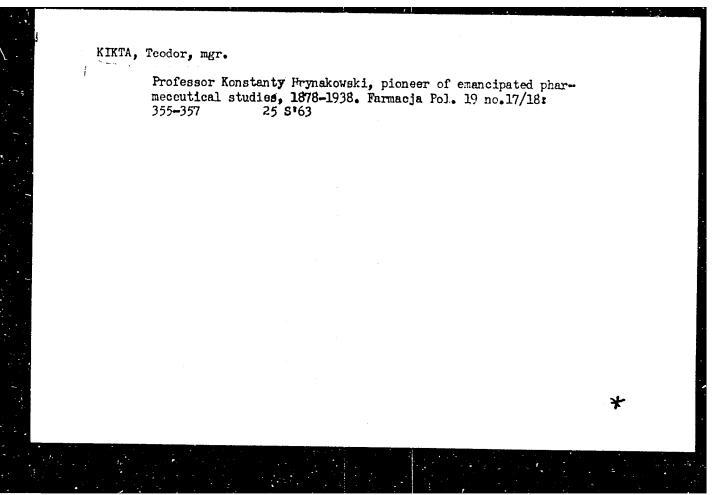
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2401, 2434, 2475 080: 2200-K

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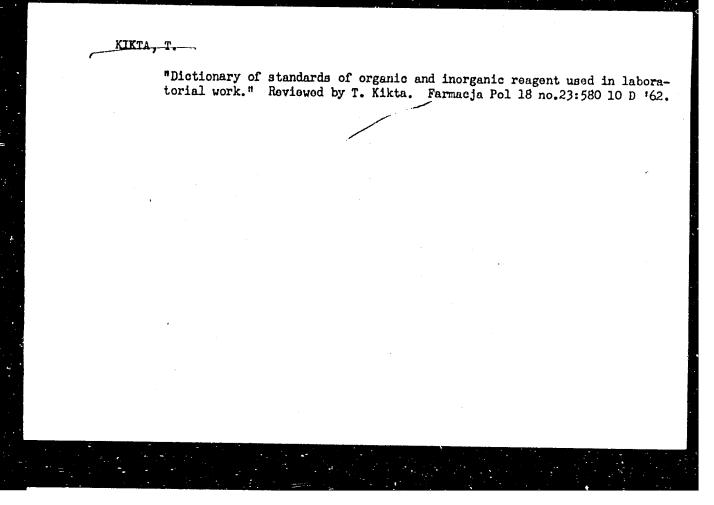
"Papers for the degree of doctors of medicine, stomatology, and pharmacy during the years 1945-1951" by Ebigniew Wozniewski. Reviewed by T.Kikta. Farmacja Pol 19 no. 13/14.309 25 52 63.



KIKTA, Teodor, mgr.

The new Soviet pharmacopoeia. Farmacja polska 18 no.12:293-294 25 Je '62.

X



KIKTA, T., mgr

From the Department of Pharmacy of the School of Medicine in Kiakow. Farmacja Pol 18 no.21:529-530 10 N '62.

¥

POLAND

KIKTA, T., Magister [Affiliation not given]
"Jedrzej Sniadecki, on the 125th Anniversary of His Death."

Warsaw, Farmacja Polska, Vol 19, No 10, 25 May 63, p 218.

Abstract: A brief sketch of the life and works of the famous Polish naturalist (1768-1838), the first to introduce instruction of chemistry and pharmacy in Polish, as well as the founder of publications in this language, may of which were translated to other languages. There are no references.

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CSO: 2000-N

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- End -

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APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000722520009-4"

The Polfa Pharmaceutical Works in Tarchomin entertained professor pharmacists. Farmacja Pol 19 no.4:83-84 25 F '63.

1

## KIRTA, T.

One nundredth anniversary of Warsaw Main School (Sakola Glowna). Farmacja Pol 19 no.8:164 25 Ap \*63.

KIKTA, T., mgr

Jedrzej Sniadecki; on the occasion of the 125th anniversary of his death. Farmacja Pol 19 no.10:218 25 My '63.

72 no.10:9 0 164.  1. Upravlyayashehiy Turkmenskim avtetrentem "Seltkhoztrana".

25(7)

807/117-59-7-14/28

AUTHOR:

Lobikov, Yu.V. and Kiktenko, A.K.

TITLE:

An Attachment for Boring Bearing Bushings Having

a Hyperbolical Curve

PERIODICAL:

Mashinostroitel', 1959, Nr 7, pp 30-31 (USSR)

ABSTRACT:

Information is given on the design and operation of a new attachment designed and used at the Kolomenskiy teplovozostroitel nyy zavod imeni Kuybyshev (Kolomna Diesel Locomotive Plant imeni Kuybyshev) for boring bushings having a diameter difference of 0.03 to 0.04 mm between the middle and the ends, the bore diameter changing on a hyperbolic curve. The attachment is used on the diamond boring ma-

chine "2A715". There are 3 diagrams.

Card 1/1

KINTELHO, D.

25703. Gosuders ventions solvial in the stability and the professional professions, 1019, No. 31, S. 23-37. Perfilor, I.

SO: Letopict Ehermal'n Min State, Vol. 9, Moskva, Eph9

- 1. KIKTENKO, E.
- 2. USSR (600)
- 4. Insurance, social
- 7. Improve the work of social insurance councils. V pom. profaktivu 14 No. 3, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

# Use fireproof materials in replacing wooden flues and straw-thatched roofs. Sil'.bud. 10 no.2:22 F '60. (MIRA 13:5) 1. Starshiy inswektor Upravleniya pozharnoy okhrany Ministerstva vnutrennikh del USSR. (Flues) (Roofing)

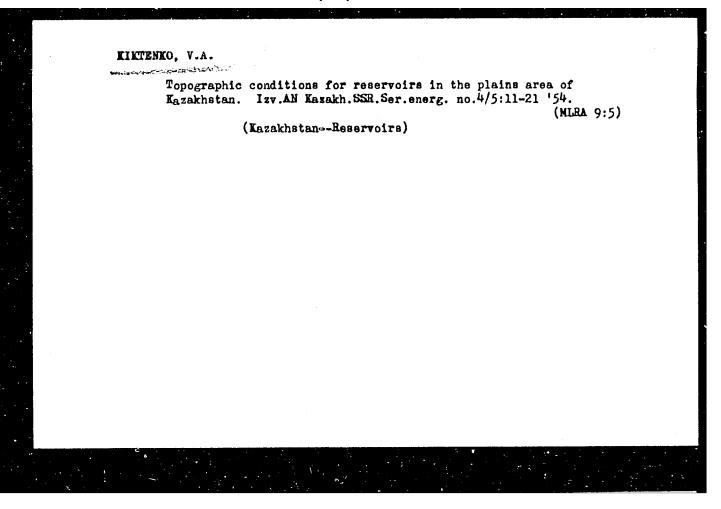
Wintenko, N.A., inzhener.

Use of prefabricated reinforced concrete foundations under the motal structure of open substations. Elek.sta. 25 no.1:48-49

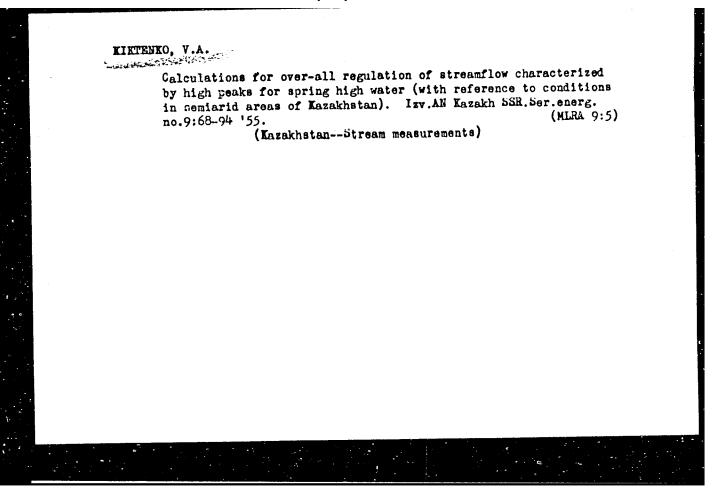
Ja '54.

(Riectric substations)

(Riectric substations)



## Calculating the optimal depth of a canal through a watershed. Izv. AN Kazakh.SSR. Ser.energ. no.8:46-56 '55. (MIRA 8:12) (Canals)



CHOKIN, Sh.Ch.; KALACHEV, N.S.; KIKTENKO, V.A.

The problem of irrigating central Kaxakhstan with water from the Irtysh. Vest. AH Kazakh. SSR 11 no.6:15-24 Je '55.

(Kazakhstan--Irrigation) (MLRA 8:8)

Kiktenko, L.H.

CHOKIN, Sh.Ch.; KIKTENKO, V.A.

Present proposals and principles on the construction of an efficient water supply plan for industrial power centers in central Kasakhstan based on the Irtysh River streamflow. Vest.AN Kazakh.SSR 11 no.8: (MIRA 9:1) 3-16 Ag'55. (Kazakhstan--Water resouces development)

CHOKIN, Sh.Ch.; KIKTENKO, V.A.

Local water supply regimen of industrial power centers in central Kazakhstan. Vest.AN Kazakh.SSR 11 no.9:11-26 S '55. (MLRA 9:1) (Kazakhstan--Water supply)